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Water Supply Outlook For Utah



SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

UTAH STATE DEPARTMENT of NATURAL RESOURCES

AS OF
OCT. 1, 1980

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

*COVER PHOTO: THE SNOW PROJECT CENTRAL COMPUTER FACILITIES IN PORTLAND, OREGON.
THE TERMINAL, PRINTER, COMPUTER AND TAPE DRIVES HAVE NOT COMPLETELY REPLACED THE
SNOW SAMPLING TUBES SEEN IN THE FOREGROUND.*

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



WATER SUPPLY OUTLOOK FOR UTAH

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

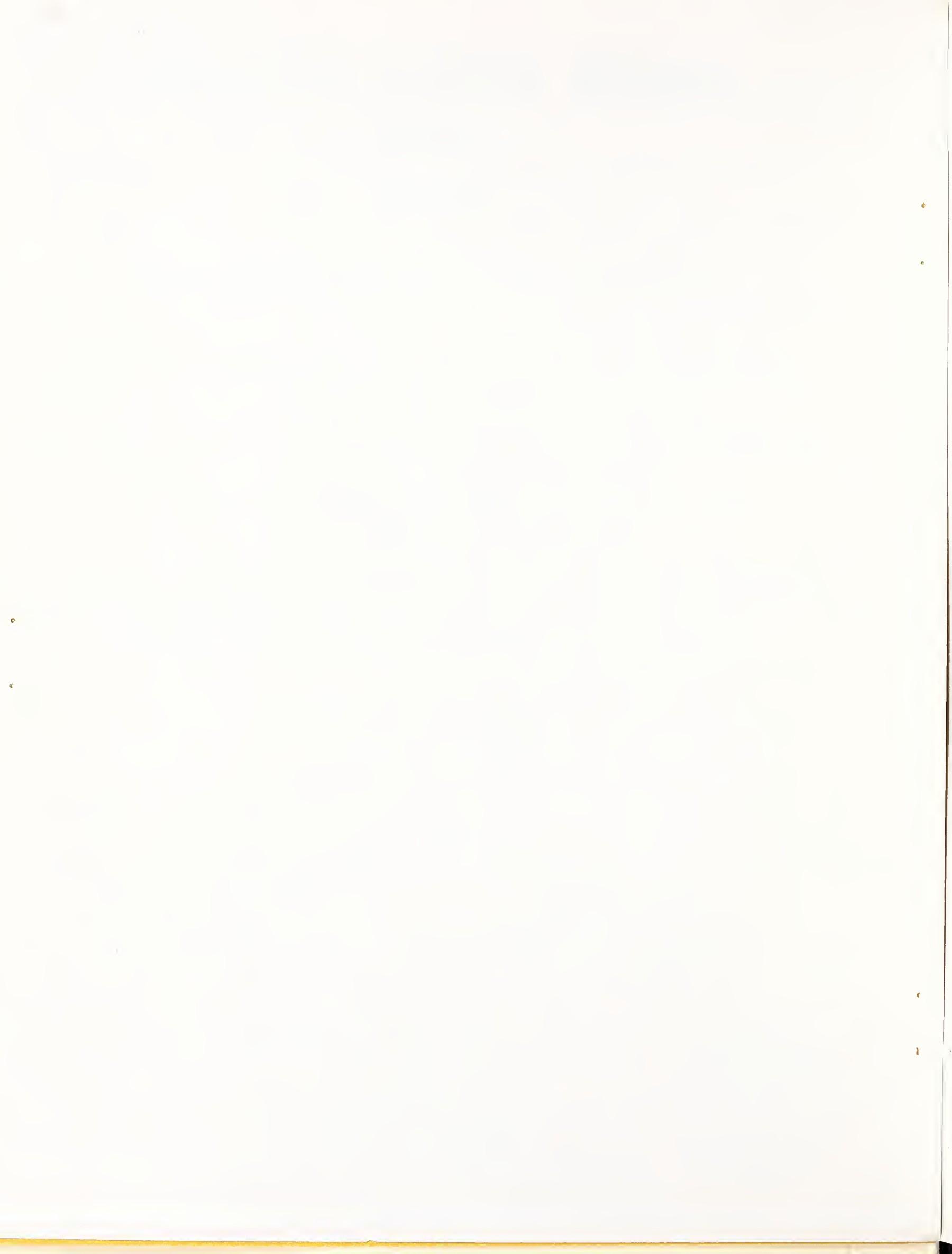
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SALT LAKE CITY, UTAH

In Cooperation with
UTAH STATE DEPT. OF NATURAL RESOURCES

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WATER SUPPLY OUTLOOK

SUMMARY

as of

October 1, 1980

Delayed snow melt last spring produced more flow than forecast on many streams -- especially in central and southern Utah. Provisional flows provided by the U.S. Geological Survey indicates some northern Utah streams were slightly over forecast (Logan River) and some received more flow than forecast (Inflow to Pineview Reservoir). Others were very close or right on the forecast (East Canyon Creek).

Summer precipitation was again very short and fall soil moisture was drier than average. Storms after October 1 should improve this situation if enough moisture falls before watershed soils freeze.

Reservoir storage in 19 of the state's key irrigations facilities now totals 124% of the October 1 average and some reservoirs are better than twice the 15 year average for October 1, such as the three Sevier River Reservoirs. Others that have a very good carry-over supply are Strawberry, Utah Lake, Pineview, Steinaker, Starvation, and Minersville.

The following table is a comparison of forecasts made on May 1 with provisional flow measured by the Geological Survey.

WATER SUPPLY OUTLOOK

<u>Station</u>	<u>Forecast Period</u>	<u>May 1 Forecast (1000 A.F.)</u>	<u>Measured Flow for the Period (1000 A.F.)</u>
<u>BEAR RIVER</u>			
Logan nr Logan (combined)	May-July	116	112.1
Blacksmith Fork nr Hyrum	May-July	39	46.5
Little Bear nr Paradise	May-June	24	42.3
<u>WEBER-OGDEN RIVERS</u>			
Weber nr Oakley	May-June	109	100.3
Chalk Creek nr Coalville	May-June	38	35.0
Lost Creek nr Croydon	May-June	15	19.3
East Canyon nr Porterville	May-June	22	22.0
South Fk Ogden nr Huntsville	May-June	54	64.0
Pineview Inflow	May-June	99	125.9
<u>UTAH LAKE-JORDAN RIVER</u>			
Provo nr Hailstone	May-July	137	122.6
Utah Lake Inflow	May-July	296	241.0
<u>UINTAH BASIN & DAGGETT SCDS</u>			
Ashley Cr nr Vernal	May-July	61	59.8
Lakefork below Moon Lake	May-July	78	79.3
Yellowstone nr Altonah	May-July	75	70.6
Uintah nr Neola	May-July	101	91.2
Whiterocks nr Whiterocks	May-July	62	65.6
<u>SEVIER RIVER BASIN including BEAVER RIVER</u>			
Sevier at Hatch	May-July	88	95.6
Sevier nr Kingston	May-July	54	82.3
East Fork Sevier nr Kingston	May-July	35	37.7
Piute Reservoir Inflow	May-July	91	120.0
Beaver River nr Beaver	May-July	33	44.9

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	Reservoir	Usable Capacity	Usable Storage		
			This Year	Last Year	Average+
GREAT BASIN					
<u>Bear River</u>	Bear Lake	1421.0	1182.4	956.9	1091.1
	Woodruff Narrows	26.5	4.2	5.0e	12.0
<u>Beaver River</u>	Minersville (RkyFd)	23.3	14.6	10.1	5.2
<u>Little Bear</u>	Hyrum	15.3	10.1	5.9	8.7
	Porcupine	11.3	1.6	1.0	2.2
	Causey	6.9	2.3	1.1	1.6b
	Pineview	110.1	71.2	58.2	57.7
<u>Provo</u>	Deer Creek	149.7	103.4	80.4	100.9
<u>Settlement Creek</u>	Settlement Creek	1.2		0.0	--
	Vernon Creek	0.6		0.1	--
	Gunnison	18.2		0.1	3.6
	Otter Creek	52.5	39.9	35.0	18.7
	Piute	71.8	51.6	20.2	13.4
	Sevier Bridge	236.0	144.1	65.0	66.3
<u>Spanish Fork</u>	Strawberry	270.0	213.5	149.2	149.0
<u>Utah Lake</u>	Utah Lake	883.9	806.1	584.7	569.8
<u>Weber</u>	East Canyon	48.1	31.4	25.0	25.3
	Echo	73.9	34.7	10.2	27.6
	Lost Creek	20.0	15.4	12.8	13.8b
	Rockport	60.9	48.8	43.7	44.4
	Willard Bay	193.3	168.3	165.1	145.9
COLORADO RIVER BASIN					
<u>Ashley Creek</u>	Steinaker	33.3	21.8	10.1	16.4
<u>Colorado</u>	Blue Mesa	829.5	737.8	710.0	
	Lake Powell	25002.0	23084.0	21637.0	
<u>Green</u>	Flaming Gorge	3749.0	3077.5	2572.0	
<u>Lakefork</u>	Moon Lake	35.8	10.3	--	10.6
<u>Price River</u>	Scofield	65.8	47.5	41.2	34.0
<u>San Juan</u>	Navajo	1696.0	1555.0	1364.0	
<u>San Rafael</u>	Huntington North	3.9	0.9	0.2	1.0b
	Joe's Valley	54.6	42.4	36.9	38.6b
	Mill Site	16.7	9.3	1.3	--
<u>Strawberry</u>	Starvation	165.3	140.7	2.2	123.6b
<u>Uintah</u>	Bottle Hollow	11.3	10.8	--	10.2b
	b=less than 15 yrs.				

UTAH PRECIPITATION DATA

1980 WATER YEAR

STATION NAME	OCT.-DEC.	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY-SEPT.	TOTAL
BUG LAKE	12/31 8.10	1/31 8.00	2/29 3.80	3/31 4.10	4/30 1.90	5/31 3.50	6/30 2.00	7/30 2.40	34.70
BURTS-MILLER	12/28 4.54	1/31 4.16	2/27 2.57	3/24 1.68	4/25 .40	5/32 3.90		9/25 2.64	19.99
CLARKSTON MTN								9/30	45.76
FRANKLIN BASIN	12/31 14.29	1/31 11.11	2/29 0.70	3/31 0.90	4/30 7.94	5/31 6.35	6/30 4.22	9/30 7.41	50.94
GARDEN CTY SMT	12/26 6.46	2/03 9.63	2/25 3.27	4/02 3.82	4/28 1.50	5/28 4.18	7/07 2.98	9/25 2.34	27.72
GEORGE PEAK	12/31 8.78	1/30 8.10	2/27 5.18	3/27 2.48	4/12 6.08	6/24 8.78	9/30 3.92	9/30	47.30
HAYDEN FORK	12/28 7.88	1/31 8.30	2/26 4.88	3/24 3.45	4/24 2.30	6/24 4.55	6/24 .0	9/16 3.40	34.76
HERD HOLLOW								9/25 33.72	33.72
LILY LAKE	12/28 6.19	1/31 6.27	2/26 3.82	3/24 2.70	4/24 1.80	5/11 3.57	6/24 .33	9/25 2.56	27.26
LITTLE BEAR UP	12/31 7.10	1/30 9.50	2/29 6.50	3/31 5.40	4/30 1.90	5/31 6.40	6/30 .0	9/30 2.68	37.40
KLONDIKE NRWS	12/27 7.87	2/03 9.71	2/26 4.19	4/03 3.95	4/28 1.51	5/28 4.88	7/07 4.76	9/25 3.68	47.61
MONTE CRISTO	12/26 8.67	2/03 11.03	2/25 4.68	4/02 6.09	4/26 2.14	5/28 5.46	7/09 3.90	10/14 9.55	51.62
SALT RIVER SMT	12/26 5.19	1/30 6.93	2/28 3.44	3/27 3.30	4/29 2.37	5/29 5.07	6/30 2.19	10/16 3.06	31.55
STILLWATER CMP	12/28 5.60	1/31 6.40	2/27 3.19	3/24 2.51	4/26 1.60	6/2 3.50	6/24 .0	9/25 .15	22.95
TONY GROVE LK	12/31 15.77	1/31 12.26	2/29 0.82	3/31 0.98	4/30 0.75	5/31 7.01	6/30 4.67	9/30 3.16	58.42
TONY GROVE RS	12/27 6.55	2/03 9.14	2/25 3.77	4/03 3.89	4/28 1.48	5/28 4.12	7/77 3.28	9/25 2.29	34.52
WILLOW FLAT	12/27 7.14	2/03 9.68	2/26 5.39	4/03 4.26	4/28 1.71	5/28 6.25	6/27 4.58	10/01 4.96	47.97

WEBER - OGDEN RIVER BASINS

BEN LOMOND TR	12/27 10.75	2/03 16.78	2/25 10.12	4/2 6.15	4/28 1.14	5/28 7.72	7/09 4.86	10/14 4.73	62.25
BEN LOMOND PK	12/27 13.74	2/03 21.21	2/25 12.73	4/2 7.69	4/28 1.33	5/28 9.74	7/09 6.23	9/14 5.89	79.56
CAUSEY DAM	12/26 6.03	2/02 7.28	2/25 3.16	4/2 3.45	4/28 1.08	5/28 4.59	7/09 3.00	10/01 2.28	31.67
CHALK CREEK 1	12/28 9.52	2/01 8.23	2/27 5.83	3/24 4.23	4/24 2.35	6/02 7.31	6/26 38.47	9/24 3.51	41.98
CHALK CREEK 2	12/28 6.01	2/01 5.21	2/27 3.62	3/24 2.78	4/24 1.99	6/02 4.72	6/26 24.33	9/24 3.42	27.73
CHALK CREEK 3	12/28 6.00	2/01 5.20	2/27 3.62	3/24 2.73	4/24 2.00	6/02 4.60	6/26 .0	9/24 2.97	27.17
DRY BREAD POND	12/26 6.65	2/03 8.31	2/25 3.57	1/2 4.82	4/28 1.59	5/28 4.16	7/09 3.01	10/14 7.40	39.51
FARMINGTON GS	11/29 8.10	2/02 9.42	2/25 9.49	4/2 8.78	4/28 1.09	5/28 8.18		10/09 12.28	57.34
FARMINGTON LWR	12/26 7.85	2/02 8.50	2/25 9.18	4/2 6.52	4/28 .99	5/28 5.14		10/09 11.93	55.11
FRANCIS CANYON								9/29	37.75
GUILDER'S PEAK								9/29	35.25
HORSE RIDGE	12/26 8.41	2/02 11.05	2/25 4.78	4/2 5.92	4/28 1.05	5/28 5.62	7/17 3.59	9/25 2.55	47.27
LOST CREEK	12/26 4.63	2/02 6.25	2/25 2.63	4/2 2.94	4/28 .99	5/28 3.39	7/16 1.56	9/29 1.45	23.74
PARLEY CYN SMT	12/27 7.24	2/01 7.12	2/28 5.87	3/27 5.96	4/29 2.73	5/30 3.94	6/27 .40	10/08 3.56	36.79
PINE CANYON								9/25	37.89
PORCUPINE								9/25	30.11
REDDEN MINE LW	12/26 6.02	2/01 5.51	2/26 5.00	3/24 4.03	4/25 2.05	5/22 4.65	6/25 .0	9/23 2.72	27.93
SAGEBRUSH FLAT	12/26 6.29	2/02 8.11	2/25 3.47	4/02 3.76	4/28 1.16	5/28 4.39	7/9 3.05	10/01 2.22	31.77
SERGEANT LAKES								6/26 30.38	33.68
SMOKESHOWHOUSE	12/28 6.19	2/01 7.25	2/26 4.55	3/24 3.25	4/24 1.95	5/28 7.72	7/9 4.96	9/23 5.64	33.58
BEN LOMOND TRL	12/27 10.75	2/03 16.78	2/25 10.12	4/2 6.15	4/28 1.14	5/28 7.72	7/9 4.96	10/14 4.63	62.05

NOTE: BLANK SPACES INDICATE NO READING TAKEN, NEXT READING IS CUMULATIVE (EXCEPT AS NOTED *)

*: GAGE MOLESTED, DATA FOR THIS PERIOD LOST

UTAH PRECIPITATION DATA

1980 WATER YEAR

STATION NAME	OCT.-DEC.	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY-SEPT.	TOTAL
UTAH LAKE - JORDAN RIVER BASIN									
CLEAR CR RDG 2	12/29	6.57	2/02	7.40	2/27	4.63	3/26	4.10.	
DANIEL-STR SMT	12/29	6.29	2/02	11.57	2/27	6.45	3/26	5.21	5/03 2.05
DUTCHMAN RS	12/28	2.55	2/01	14.85	2/28	21.01	0/32	8.53	5/02 9.12
EAST PORTAL	12/31	5.36	1/30	8.63	2/28	6.13	3/31	4.02	5/01 1.08
HOBBLE CR SMT	12/29	5.92	2/02	8.55	2/27	7.32	3/26	3.84	5/03 2.08
LAKE CREEK	11/02	2.98							5/29 3.50
LAMBS CANYON	12/27	6.18	1/31	6.77	2/28	4.47	3/28	4.07	5/01 2.30
MIDDLE CANYON	12/28	5.77	1/31	3.90	2/29	5.20	3/29	8.80	4/29 3.20
PAYSON RS	12/28	7.94	2/02	6.52	2/27	5.84	3/26	3.38	
ROCKY BASIN-SC							3/26	36.82	5/02 4.80
SOAPSTONE RS	12/26	5.40	2/1	8.48	2/26	3.69	3/26	3.45	4/24 1.60
TIMPANOGOS DIV	12/28	6.00	1/31	17.95	2/27	11.05	3/27	5.70	4/29 1.15
TRIAL LAKE	12/26	7.72	1/31	12.93	2/26	7.40	3/26	4.65	4/24 2.35
VERNON CREEK	12/28	2.36	1/30	9.20	2/28	6.50	3/28	4.70	4/30 1.70
DUCHESSNE - GREEN RIVER BASIN									
ASHLEY TWIN LK									10/02
ATWOOD LAKE									8/15
BLACKS FK JCT	12/28	6.00	1/31	4.87	2/27	3.12	3/24	2.03	4/24 3.10
BROWN DUCK RDG	12/26	.15	2/01	13.55	2/26	4.65	3/26	3.60	4/25 1.95
BUCK PASTURE									6/02 5.55
BURNT CREEK	12/26	6.70	1/31	2.20	2/28	2.00	3/26	1.50	4/28 2.35
CHEPETA WTROCK									6/04 4.75
CURRENT CREEK	12/29	4.17	2/02	9.28	2/27	5.54	3/26	3.32	5/03 1.53
E FK BLACKS FK	12/28	5.30	1/31	4.28	2/27	3.10	3/24	2.45	5/03 2.40
FIVE POINT LK									6/24 3.64
GRIZZLY RIDGE	12/26	6.88	1/31	5.57	2/28	3.80	3/26	3.30	4/26 2.00
HENRYS FORK									6/04 4.70
HICKERSON PARK		13	1/ 7	60.22	7/ 2	62.32	4/ 1	63.42	4/ 2 55.
HEWINTA GS	12/28	6.38	1/31	5.02	2/27	3.06			7/01 5.00
INDIAN CANYON	12/29	3.35	2/02	7.78	2/28	6.73	3/27	2.94	5/03 1.81
JACKSON PARK	12/28	3.95	2/01	9.55	2/26	3.55	3/26	3.55	4/25 2.15
KIDNEY LAKES									6/02 6.55
KINGS CABIN UP	12/27	6.70			2/27	8.15	3/25	3.39	4/24 1.65
LAKEFORK BASIN									6/02 5.50
LAKEFORK MTN 1	12/26	3.70	2/01	8.40	2/26	3.96	3/26	2.95	4/26 1.85
									6/02 4.15
									7/17 .90
									9/30 4.40

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*: GAGE MOLESTED, DATA FOR THIS PERIOD LOST

UTAH PRECIPITATION DATA

1980 WATER YEAR

STATION NAME	OCT.-DEC.	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY-SEPT.	TOTAL
LIGHTNING LAKE								9/27	27.70
MOSBY MOUNTAIN	12/26 4.15	2/01 7.95	2/26 3.50	3/25 4.45	4/25 5.65	5/22 8.90	6/30 .0	10/02 6.50	36.65
PARADISE PARK	12/26 4.05	2/01 5.81	2/26 3.60	3/25 4.45	4/25 2.40	5/22 9.70	6/30 .0	10/02 5.42	34.72
REYNOLDS PARK								9/26	25.83
ROCK CREEK	12/26 2.97	2/01 7.85	2/28 3.98	3/26 2.42	4/26 1.85	5/22 3.45	6/24 .0	9/30 4.17	26.59
SPIRIT LAKE	12/28 7.11	1/31 3.94	2/27 3.95	3/25 3.50	4/24 3.45	5/22 10.30	7/01 .0	9/30 4.25	36.75
STEEL CRK PARK							6/24 19.89	9/30 3.60	23.49
TROUT CREEK	12/29 6.10	1/31 5.17	2/27 3.73	3/25 3.25	4/24 2.25	5/22 5.50	7/01 .0	9/25 3.80	26.40
W FK DUCHESNE							6/23 32.63	9/22 2.75	35.36

PRICE - SAN RAFAEL RIVER BASIN

BLACKS FLAT-UM	12/30 4.86	2/3 4.89	3/01 3.91	3/29 4.45	5/24 2.12	5/31 2.09	6/19 .0	9/25 2.70	35.03
BUCKBOARD FLAT	1/02 7.95	1/28 6.55	2/26 7.36	3/25 3.48	4/24 2.92	5/23 5.60	6/25 .0	10/14 2.75	29.93
BUCK FLAT	12/28 6.15	2/01 7.15	2/27 7.17	3/26 5.19	5/02 3.02	5/26 4.51	7/02 .0	9/30 4.40	37.59
CAMP JACKSON	1/02 7.22	1/28 7.09	2/26 9.90	3/25 4.92	4/24 1.80	5/28 3.41	6/25 .0	10/14 3.42	27.82
DILLS CAMP	12/28 5.10	2/01 5.30	2/27 5.03	3/26 3.91	5/22 2.89	5/28 4.71	7/14 .53	9/30 4.58	33.09
FISH LAKE	12/30 3.04	2/03 4.40	3/01 3.26	3/25 2.27	5/04 2.72	5/31 2.79	6/27 .0	9/25 4.30	22.76
GOOSEBERRY RES	12/29 6.81	2/01 8.36	2/28 7.89	3/27 6.17	5/03 2.03	5/28 5.63		9/30 4.00	40.89
LASAL MTN UPR	1/03 6.20	1/30 4.80	2/28 6.08	3/26 8.00	4/28 2.92	5/27 4.92	6/26 .5	10/15 5.72	39.67
MUD CREEK	12/29 5.42	2/01 6.78	2/28 5.98	3/27 4.47	5/22 2.52	5/28 3.10	7/03 .57	9/23 3.10	31.94
ORANGE OLSEN	12/28 1.90	2/01 4.50	2/28 4.57	3/28 2.27	5/22 1.78	5/28 1.82	7/01 .0	9/24 3.70	20.54
RED PINE RIDGE	12/29 5.60	2/01 6.93	2/28 7.55	3/28 5.42	5/02 3.26	5/28 3.15	7/03 .0	9/25 3.40	35.76
STUART RS OLD	12/29 2.72	2/01 5.44	2/28 5.55	3/27 2.31	5/22 3.15	5/28 2.72	7/03 .52	9/24 3.35	25.76
WHITE RIVER #1	12/29 4.30	2/02 6.69	2/28 4.66	3/27 3.30	5/03 2.12	5/28 3.45	7/03 .56	9/19 6.95	32.03

SEVIER - BEAVER RIVER BASINS

BEAVER DAMS	12/28 5.73	2/01 3.99	2/27 5.24	3/26 4.44	5/22 3.24	5/28 3.51	6/13 .0	9/29 3.88	37.03
BIG FLAT	12/27 4.45	1/31 7.71	2/26 8.35	3/25 5.41	4/30 2.64	5/27 8.09	7/07 .53	9/26 4.01	41.19
BOX CREEK	12/27 5.02	1/31 5.92	3/01 4.97	3/25 4.13	5/02 3.45	5/31 3.96		9/25 5.65	32.10
CASTLE VALLEY	12/27 4.56	1/31 5.66	2/26 5.37	3/25 4.18	4/30 2.82	5/27 3.21	6/27 .0	9/29 4.55	31.75
DUCK CREEK	12/30 4.28	2/03 11.71	3/02 2.74	3/29 5.90	5/24 1.74	5/30 3.53	6/27 .0	9/29 7.70	44.60
FARNSWORTH LK	12/30 9.24	2/03 4.69	3/01 4.22	3/28 6.60	4/30 2.94	5/31 4.05	6/27 .0	9/26 5.30	38.54
GBRC HEADQTPS	12/28 9.15	2/02 4.66	2/27 7.68	3/26 5.50	5/22 3.45	5/28 4.82	7/02 .16	10/01 4.72	40.14
GBRC MAJORS	12/28 5.20	2/02 2.32	2/27 5.43	3/31 4.00	5/06 1.25	5/28 3.50	7/02 .5	10/01 3.35	25.10
GBRC MEADOWS	12/28 9.34	2/02 6.64	2/27 8.90	3/26 6.10	5/02 4.22	5/28 4.90	7/02 .12	10/01 5.25	45.48
GBRC OAKS	12/28 6.21	2/02 2.59	2/27 6.26	3/31 4.95	5/06 1.50	5/28 4.00	7/02 .15	10/01 3.55	28.91
GOOSEBERRY PS	12/30 7.21	2/03 7.14	3/01 2.97	3/28 4.55	5/01 2.66	5/31 4.57	6/20 .0	9/26 4.85	29.95
HI-TOP MTN								7/15	27.54

NOTE: BLANK SPACES INDICATE NO READING TAKEN, NEXT READING IS CUMULATIVE (EXCEPT AS NOTED #)

#: GAGE MOLESTED, DATA FOR THIS PERIOD LOST

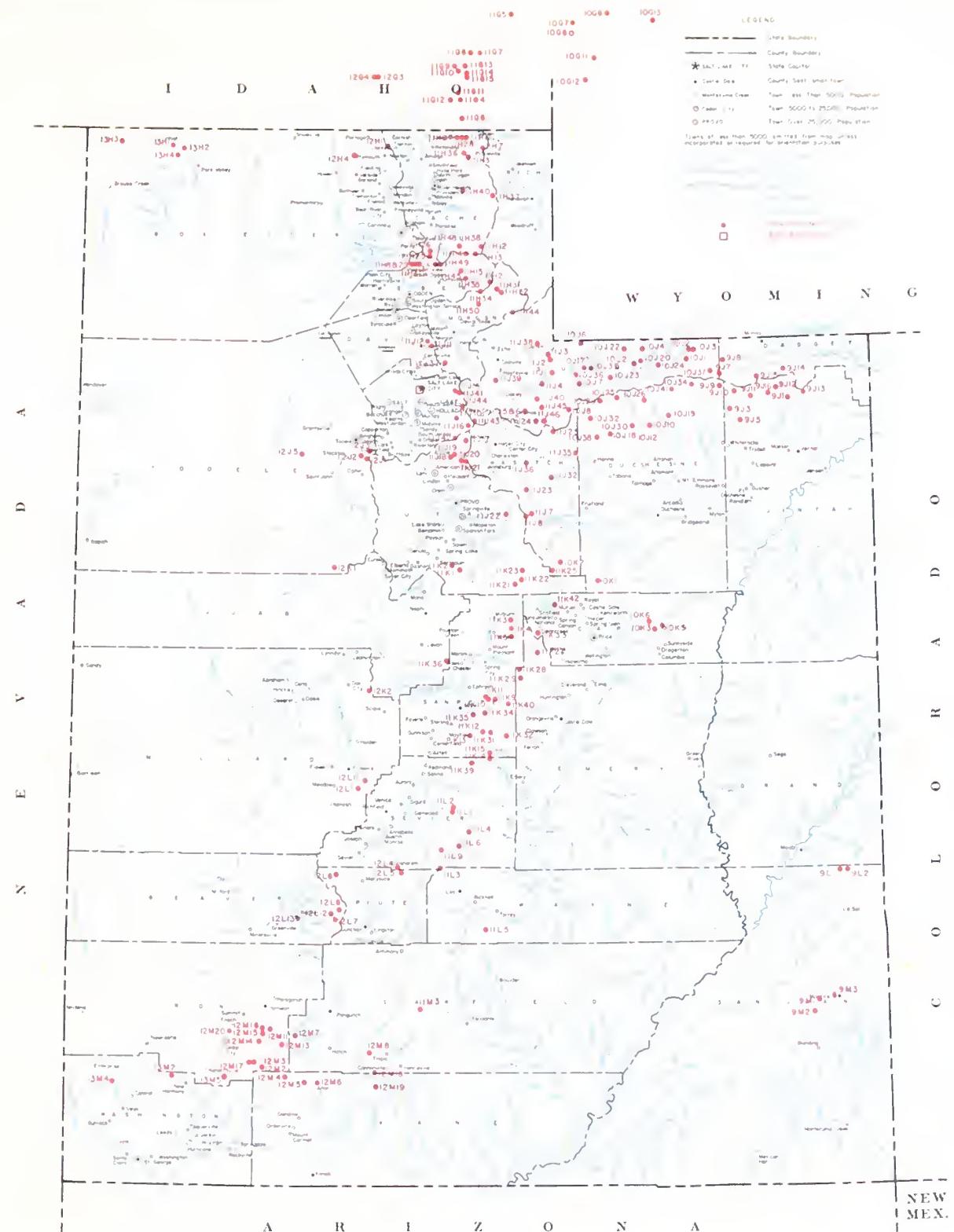
UTAH PRECIPITATION DATA

1980 WATER YEAR

STATION NAME	OCT.-DEC.	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY-SEPT.	TOTAL
KIMBERLY MINE	12/27 6.22	1/31 7.06	2/26 5.54	3/25 4.79	4/30 3.88	5/27 5.81	7/27 1.11	9/26 5.72	40.83
MERCHANT VALLEY	12/27 4.04	1/31 6.14	2/26 5.97	3/25 4.25	4/30 1.99	5/27 8.56	7/27 2.71	9/26 3.97	39.73
MIDWAY VALLEY	12/30 4.85	2/23 10.13	3/02 10.04	3/29 4.78	5/04 1.81	5/30 2.93			
MT BALDY RS	12/28 6.25	2/03 6.16	2/27 6.90	3/26 5.31	5/02 3.52	5/28 4.35	6/30 .0	9/29 4.90	37.39
OAK CREEK			2/28 20.35	3/27 2.65	5/01 2.52	6/05 5.62	7/01 .37	9/30 2.57	35.08
PANGUITCH LAKE	12/27 2.71	1/31 2.84	2/26 4.17	3/25 1.84	4/30 1.43	5/27 2.15	6/27 .0	9/29 4.44	19.58
PICKLE KEG SPG	12/31 8.00	1/71 4.60	2/29 5.90	3/31 7.50	4/30 2.20	5/31 2.90	6/30 .0	9/30 4.10	35.20
PINE CREEK	12/27 8.43	1/31 4.84	2/26 4.95	3/25 5.13	5/04 5.30	5/29 6.40	6/30 .0	9/25 3.90	38.85
REES FLAT	12/28 6.06	2/02 4.93	2/27 6.73	3/26 4.83	5/04 2.98	5/29 4.77	7/01 .0	9/30 3.10	33.30
SHINGLE MILL			2/28 14.57	3/27 3.60	5/01 3.30	6/02 5.40	6/30 .0	9/29 3.15	30.02
WIDTSOE-ESCL 3	12/30 14.93	2/03 5.22	3/02 5.51	3/29 4.20	5/04 4.97	5/31 3.10	6/25 .0	9/29 7.41	45.34

COAL CREEK - VIRGIN - ESCALANTE RIVER BASINS

KOLOB CRYSTAL	12/31 3.10	1/31 12.30	2/29 6.50	3/31 0.80	4/30 9.70	5/31 1.90	6/30 1.10	9/30 9.80	45.20
LITTLE GRASSY	12/30 2.61	2/03 6.11	3/02 10.53	3/29 4.81	4/29 1.08	5/30 2.81			
LONG FLAT	12/30 3.87	2/03 6.30	3/02 6.84	3/29 4.59	4/29 1.20	5/30 2.52			
TALL POLES	12/28 6.70	1/31 5.15	2/28 3.25	3/31 6.15	4/30 2.20	5/30 3.50		9/30 6.10	33.75
WEBSTER FLAT	12/30 5.79	2/03 11.70	3/02 11.84	3/29 6.99	4/29 1.58	5/30 3.53			
YANKEE RESVR	12/27 6.04	1/31 3.42	2/26 4.22	3/25 3.75	4/30 2.42	5/27 2.17		9/30 3.89	25.91



SNOW COURSES AND RELATED DATA MEASURING SITES

UTAH

1980



INDEX TO UTAH, BEAR & UPPER COLORADO RIVER BASINS

GREAT BASIN DRAINAGE

NO.	STATE	NAME	SEC.	ELEV.	RGE.	TYPE	SEC.	ELEV.	NO.	STATE	NAME	SEC.	TYP.	RISE	NO.	STATE	NAME	SEC.	TYP.	RISE	NO.	STATE	NAME	SEC.	TYP.	RISE	NO.	STATE	NAME	SEC.	TYP.	RISE								
UPPER BEAR RIVER (above Haven, Idaho)																																								
10G11	W	Bear Park	19	277N	117W	8,700	1112SP	U	Spokane S.	9	35	8E	7,800	911PST	U	Kidney Cabin (upper)	22	15	21E	8,720																				
10G20	W	Burt-Miller Ranch	19	29N	118W	7,900	1111SP	U	South Fork 8.5.	24	45	2E	6,100	1013P	U	Middle Beaver Creek	6	31	3N	8,730																				
10G27	W	Camp Creek	19	29N	118W	7,500	1110SP	U	McKee Ranch	24	45	2E	5,500	1012P	U	Reynolds Park	31	16	3N	8,740																				
10J46P	W	Gard Hill	15	1N	9E	10,000	1112PST	U	Timpanogos Divide	23	45	3E	8,140	911P	U	Spiral Lake	9	15	1N	8,750																				
10J51	U	Honey Fish	25	1N	9E	9,400	1013P	U	Triad Lake	5	35	9E	9,760	1017P	U	Steiner Park	10	15	1N	8,760																				
10J52	W	Honey Fish Ranger Station	13	26N	118W	8,600	1112SP	U	Steiner Park	17	25	12N	10,100	1012P	U	Trout Creek	12	15	13E	8,770																				
11H12	W	Idaho Gold	34	2N	10E	8,600	1013P	U	Steiner Park	20	25	12E	10,100	1011P	U	Whitewater	13	15	13E	8,770																				
11H12SP	U	Monte Grato R.S.	4	15E	8,900	1013P	U	Steiner Park	21	25	12E	9,450	1012P	U	Whitewater	2	15	20E	8,770																					
10G6	W	Pasture Meadows X	29	29N	118W	8,500	1212P	U	Beaver Cabin	24	45	4W	6,450	1012P	U	Whitewater	22	15	21E	8,770																				
10G6P	W	Sal River Summit	32	29N	118W	8,400	1212P	U	Desert Ranch	15	35	4W	7,500	1012P	U	Whitewater	23	15	4W	10,840																				
10G13MP	W	Snyder Basin	15	2N	10E	8,400	1212P	U	Lamb Canyon #2	21	15	4W	7,500	1014P	U	Whitewater	13	15	4W	10,840																				
10J17P	U	Stillwater Camp	32	29N	118W	8,400	1212P	U	Middle Canyon	8	25	3W	7,000	1014P	U	Whitewater	13	15	4W	10,850																				
LOWER BEAR RIVER (below Hailey, Idaho)																																								
11H27	U	Big Creek	18	11N	5E	7,950	1013P	U	Provo River & Utah Lake (continued)	35	45	8E	7,800	911PST	U	Upper Green River in Utah (above Duchesne River)	22	15	21E	8,730																				
11G11	U	Christensen Ranch	27	15E	8,400	1013P	U	Provo River & Utah Lake (continued)	24	45	2E	6,100	1012P	U	Upper Green River in Utah (above Duchesne River)	22	15	21E	8,730																					
11H8P	U	Christensen Creek	29	8N	14N	7,300	1212P	U	Provo River & Utah Lake (continued)	25	45	2E	6,100	1012P	U	Upper Green River in Utah (above Duchesne River)	22	15	21E	8,730																				
11H28	U	Clarkson Mountain	29	15E	8,400	1212P	U	Provo River & Utah Lake (continued)	25	45	2E	6,100	1012P	U	Upper Green River in Utah (above Duchesne River)	22	15	21E	8,730																					
11G14	U	Cold River Ranch	5	15E	8,400	1212P	U	Provo River & Utah Lake (continued)	25	45	2E	6,100	1012P	U	Upper Green River in Utah (above Duchesne River)	22	15	21E	8,730																					
11G14a	U	Dry Basin	5	15E	8,400	1212P	U	Provo River & Utah Lake (continued)	25	45	2E	6,100	1012P	U	Upper Green River in Utah (above Duchesne River)	22	15	21E	8,730																					
11G14b	U	Dry Creek Flat	30	15S	14N	7,900	1212P	U	Provo River & Utah Lake (continued)	25	45	2E	6,100	1012P	U	Upper Green River in Utah (above Duchesne River)	22	15	21E	8,730																				
11G14c	U	East Bench Summit	21	15S	14N	7,300	1212P	U	Provo River & Utah Lake (continued)	25	45	2E	6,100	1012P	U	Upper Green River in Utah (above Duchesne River)	22	15	21E	8,730																				
11G16	U	Englewood Canyon (mouth)	24	12S	14N	7,300	1212P	U	Provo River & Utah Lake (continued)	25	45	2E	6,100	1012P	U	Upper Green River in Utah (above Duchesne River)	22	15	21E	8,730																				
11G17	U	Foothills Basin	1	15N	14N	7,600	1212P	U	Provo River & Utah Lake (continued)	25	45	2E	6,100	1012P	U	Upper Green River in Utah (above Duchesne River)	22	15	21E	8,730																				
11H7MP	U	Garden City Summit	34	35	14N	7,600	1212P	U	Provo River & Utah Lake (continued)	25	45	2E	6,100	1012P	U	Upper Green River in Utah (above Duchesne River)	22	15	21E	8,730																				
11H4P	U	Hard Hollow	3	15N	14N	7,200	1212P	U	Provo River & Utah Lake (continued)	25	45	2E	6,100	1012P	U	Upper Green River in Utah (above Duchesne River)	22	15	21E	8,730																				
11H5P	U	Holiday Ranch	10	15N	14N	7,800	1212P	U	Provo River & Utah Lake (continued)	25	45	2E	6,100	1012P	U	Upper Green River in Utah (above Duchesne River)	22	15	21E	8,730																				
11H6P	U	Horsetail Ranch	10	15N	14N	7,800	1212P	U	Provo River & Utah Lake (continued)	25	45	2E	6,100	1012P	U	Upper Green River in Utah (above Duchesne River)	22	15	21E	8,730																				
11H7P	U	Horsetail Ranch	10	15N	14N	7,800	1212P	U	Provo River & Utah Lake (continued)	25	45	2E	6,100	1012P	U	Upper Green River in Utah (above Duchesne River)	22	15	21E	8,730																				
11H8P	U	Horsetail Ranch	10	15N	14N	7,800	1212P	U	Provo River & Utah Lake (continued)	25	45	2E	6,100	1012P	U	Upper Green River in Utah (above Duchesne River)	22	15	21E	8,730																				
11H9P	U	Strawberry Creek	14	15E	8,400	1212P	U	Provo River & Utah Lake (continued)	25	45	2E	6,100	1012P	U	Upper Green River in Utah (above Duchesne River)	22	15	21E	8,730																					
11H10	U	Strawberry Creek	14	15E	8,400	1212P	U	Provo River & Utah Lake (continued)	25	45	2E	6,100	1012P	U	Upper Green River in Utah (above Duchesne River)	22	15	21E	8,730																					
11H10SP	U	Terry Grove Lake	15	15N	13N	8,400	1212P	U	Provo River & Utah Lake (continued)	25	45	2E	6,100	1012P	U	Upper Green River in Utah (above Duchesne River)	22	15	21E	8,730																				
11H11P	U	Tommy Grove Ranch	11	15N	13N	8,400	1212P	U	Provo River & Utah Lake (continued)	25	45	2E	6,100	1012P	U	Upper Green River in Utah (above Duchesne River)	22	15	21E	8,730																				
11H12P	U	Willow Flat	2	15S	14N	7,300	1212P	U	Provo River & Utah Lake (continued)	25	45	2E	6,100	1012P	U	Upper Green River in Utah (above Duchesne River)	22	15	21E	8,730																				
RAFT RIVER																																								
13H2a	U	Clear Creek Meadow	26	14N	14W	9,050	1212P	U	Raft River	23	35	2E	7,950	1112P	U	South Fork Raft River	23	15	3E	9,400																				
13H4P	U	George Peak	4	14N	14W	9,000	1212P	U	Raft River	23	35	2E	7,900	1112P	U	South Fork Raft River	23	15	3E	9,400																				
13H11	U	One Mile Summit	17	14N	14W	7,670	1212P	U	Raft River	23	35	2E	7,200	1112P	U	South Fork Raft River	23	15	3E	9,400																				
13H36	U	One Mile Summit	17	14N	14W	7,670	1212P	U	Raft River	23	35	2E	7,200	1112P	U	South Fork Raft River	23	15	3E	9,400																				
OGDEN RIVER																																								
11H4M	U	Beaver Creek-Skunk Creek	22	8N	14N	7,150	1212P	U	Ogden River	23	35	2E	6,350	1112P	U	Ogden River	23	35	2E	6,350	1112P	U	Ogden River	23	35	2E	9,400													
11H8PST	U	Beaver Creek-Skunk Creek	28	7E	7,500	1212P	U	Ogden River	23	35	2E	6,350	1112P	U	Ogden River	23	35	2E	6,350	1112P	U	Ogden River	23	35	2E	9,400														
11H24P	U	Clear Creek	4	29N	14N	7,500	1212P	U	Ogden River	23	35	2E	6,350	1112P	U	Ogden River	23	35	2E	6,350	1112P	U	Ogden River	23	35	2E	9,400													
11H25P	U	Clear Creek	7	29N	14N	7,500	1212P	U	Ogden River	23	35	2E	6,350	1112P	U	Ogden River	23	35	2E	6,350	1112P	U	Ogden River	23	35	2E	9,400													
11H25MP	U	Clear Creek	7	29N	14N	7,500	1212P	U	Ogden River	23	35	2E	6,350	1112P	U	Ogden River	23	35	2E	6,350	1112P	U	Ogden River	23	35	2E	9,400													
11H26P	U	Clear Creek	7	29N	14N	7,500	1212P	U	Ogden River	23	35	2E	6,350	1112P	U	Ogden River	23	35	2E	6,350	1112P	U	Ogden River	23	35	2E	9,400													
11H27P	U	Clear Creek	7	29N	14N	7,500	1212P	U	Ogden River	23	35	2E	6,350	1112P	U	Ogden River	23	35	2E	6,350	1112P	U</																		

Agencies Cooperating in Utah Snow Surveys

U.S. GOVERNMENT AGENCIES

U.S. Department of Agriculture
Soil Conservation Service
Forest Service
U.S. Department of Commerce
NOAA, National Weather Service
U.S. Department of Interior
Bureau of Reclamation
Geological Survey
National Park Service

STATE AGENCIES

Utah State Department of Natural Resources,
Division of Water Resources and Division of
Wildlife Resources
Bear River Commissioner
Price River Commissioner
Provo River Commissioner
Sevier River Commissioners
Spanish Fork River Commissioner
Utah Lake and Jordan River Commissioner

MUNICIPALITIES

Manti
Salt Lake City

ORGANIZED PUBLIC AGENCIES

Beaver River Water Users Association
Board of Canal Presidents - Jordan River
Emery Canal and Reservoir Company
Moon Lake Water Users Association
Ogden River Water Users Association
Provo River Water Users Association
Strawberry Water Users Association
Sevier River Water Users Association
Weber River Water Users Association
Weber River Conservancy District

PRIVATE AGENCIES

Kaiser Steel Corporation



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